Di-Pak™ R-4528/7

Thermoplastic

Hapco Inc.

Message:

RIGID
DI-PAK R-4528 Series
A black, flame retardant, thermally conductive, high performance series that can be used in all types of electrical components. Combined with its ability to dissipate heat, DI-PAK R-4528 also provides low linear thermal expansion, low shrinkage, and low exothermic heat while curing. Meets UL requirements.

General Information	
Features	Electrically Insulating
	Flame Retardant
	Good Processability
	Good Toughness
	High Heat Resistance
	Low Shrinkage
	Low Viscosity
	Thermally Conductive
Uses	Battery Cases
	Electrical/Electronic Applications
	Power Cable Shields
	Switches
Appearance	Black
Forms	Liquid
Processing Method	Encapsulating
	Potting

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69	g/cm³	ASTM D4669
Molding Shrinkage - Flow	0.050 to 0.10	%	ASTM D2566
Weight - per cubic inch	28	g	
Service Temperature	163	°C	
Gel Time [1] (25°C)	50.0	min	ASTM D2971
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D)	95		ASTM D2240
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength	48.3	MPa	ASTM D638
Tensile Elongation (Break)	0.60	%	ASTM D638

Flexural Modulus	2660	MPa	ASTM D790
Flexural Strength	53.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	22	J/m	ASTM D256
Unnotched Izod Impact	33	J/m	ASTM D256
Thermal	Nominal Value	Unit	
Thermal Conductivity	0.42	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	7.5E+13	ohms·cm	ASTM D257
Dielectric Strength	17	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
1 kHz	4.60		
100 kHz	4.40		
Dissipation Factor (25°C, 100 kHz)	9.0E-3		ASTM D150
Thermoset	Nominal Value	Unit	Test Method
Thermoset Components			
Part A	Mix Ratio by Weight: 100, Mix Ratio by Volume: 100		
Part B	Mix Ratio by Weight: 6.0, Mix Ratio by Volume: 10		
Thermoset Mix Viscosity (25°C)	24000	cP	ASTM D4878
Demold Time			
21°C	960 to 1400	min	
66°C	120 to 240	min	
NOTE			
1.	100 g		

Recommended distributors for this material

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